



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

chain bonds :

1-2 1-3 1-4 1-5 3-6 4-12 6-7 7-8 8-9 8-10 8-11 12-13 13-14 13-15 14-17 15-16
16-18 17-19 17-21 18-20 18-35 21-22 22-23 23-24 24-25 25-26 26-27 27-28 28-29
29-30 30-31 31-32 32-33 33-34 35-36 36-37 37-38 38-39 39-40 40-41 41-42 42-43
43-44 44-45 45-46 46-47 47-48

exact/norm bonds :

1-2 1-3 1-4 1-5 3-6 4-12 7-8 8-9 8-10 8-11 13-14 14-17 15-16 16-18 17-19 18-20

exact bonds :

6-7 12-13 13-15 17-21 18-35 21-22 22-23 23-24 24-25 25-26 26-27 27-28 28-29 29-30
30-31 31-32 32-33 33-34 35-36 36-37 37-38 38-39 39-40 40-41 41-42 42-43 43-44
44-45 45-46 46-47 47-48

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS 28:CLASS
29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS
38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS
47:CLASS 48:CLASS